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Application No: 10/646,689

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IN THE CLAIMS:

Claims 1-13 (canceled).

14. (Original) A method of setting a working gap of an armature assembly in a fuel injector, the fuel injector having a housing including a first end and a second end extending between a longitudinal axis, a housing having a flow passage extending between the first and second ends, an electromagnetic actuator including a stator and an armature assembly, a spring disposed between the stator and the armature assembly and operable to push the armature assembly towards the second end to form a gap therein, the method comprising:

inserting a sleeve and a flow metering assembly within the flow passage, the flow metering assembly limiting the movement of the armature assembly towards the second end; and

limiting the inserting of the flow metering assembly along the longitudinal axis toward a first end by a position of the sleeve, the position defining the magnitude of the gap between the stator and the armature assembly.

15. (Original) The method according to claim 14, wherein the housing further comprises a tube.

16. (Original) The method according to claim 14, wherein the flow metering assembly includes at least one of a seat, an armature guide and an orifice disk.

17. (Original) The method according to claim 14, wherein the sleeve has an outside diameter that grips the inside diameter of the flow passage.

18. (Original) The method according to claim 14, wherein the limiting further comprises a sleeve in contiguous engagement with the flow metering assembly.

19. (Original) The method according to claim 14, further comprising:
adjusting a volume of fuel dispensed by the fuel injector by moving at least one of the sleeve and seat along the longitudinal axis.